```
from module.noise import white
    from module.probability import RandomVariable, ParameterSet, IndependentInference
 2.
    from module.simulation import stick and ball
 3.
    from module.plot import plot joint, fullplot
 4.
 5.
 6.
    noise = 7.
7.
    # 1.) Parameters to infer
 8.
    cm = RandomVariable(name= 'cm', range_min=0.5, range_max=1.5, resolution=60, mean=1., sigma=0.2)
    gpas = RandomVariable(name='gpas', range min=0.00005, range max=0.00015, resolution=60,
10.
    mean=0.0001, sigma=0.00002)
    # Ra = RandomVariable(name='Ra', range min=50., range max=150., resolution=60, mean=100.,
11.
    sigma=20.)
12.
13.
    # 2.) Set up parameter set
    cm gpas = ParameterSet(cm, gpas)
14.
15.
16.
    # 3.) Sythetic data
17. t, v = stick and ball()
    exp v = white(noise, v)
18.
19.
    # 4.) Set up inference
20.
    inf = IndependentInference(model=stick and ball, noise std=noise, target trace=exp v,
21.
    parameter set=cm gpas, working path="", speed='max', save=False)
22.
    # 5.) Run inference
23.
24.
    if name == " main ":
        inf.run sim()
25.
26.
    # 6.) Run evaluation
27.
    inf.run evaluation()
28.
29.
    # 7.) Plot solution
30.
    print inf
31.
    plot_joint(inf, cm, gpas)
32.
33. fullplot(inf)
```